











Explication du test inter-laboratoires international du CSITC

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UR 102 - LTC







Explic_CSITC_InaugurationRTC_Courte_V0.ppt




This project is co-funded by the European Union and the Common Fund for Commodities







Plan of presentation Plan de présentation



<ul style="list-style-type: none"> • Existing tests • CSITC RT • Data for one instrument • Evaluation principle • Charts • Influences • Example • Another example • On the long run 	<ul style="list-style-type: none"> • Tests actuels • CSITC RT • Données d'un instrument • Principe d'évaluation • Graphes • Influences • Exemple • Autre exemple • Dans le temps
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Existing Round Trials – Attributes (1) Critères des tests existants			
Attribute	USDA HVI Checktest	Bremen Round Trial	CSITC Round Trial
Number of participants	50 to 80 HVIs	100 to 120 HVIs	60 to 80 HVIs increasing
Start	?	1950s	2007
Region	Worldwide	Worldwide	Worldwide
Kinds of instruments	High Volume Testing	All kinds	High Volume Testing
Costs for participation	Charged	Free	Subsidized charge
Cottons: Origin and type	USA; Upland	World; broad range of prop.	USA / world; Upland or similar
Frequency	12 times/year	4 times/year	4 times/year
Number of samples	2 samples	1 sample	4 / 5 samples


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Existing Round Trials – Attributes (2) Critères des tests existants			
Attribute	USDA HVI Checktest	Bremen Round Trial	CSITC Round Trial
Aim	Information for the laboratory	Information for the laboratory	Official laboratory evaluation and detailed analysis for the laboratory
Evaluation of	Laboratory average	Laboratory average	Laboratory average and all single data
Evaluation of Trueness	Yes	Yes	Yes
Evaluation of precision	No	No	Yes
Detailed evaluation	No	No	Yes
Official grading result	No	No	Yes



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Plan of presentation

Plan de présentation



- Existing tests
- CSITC RT
- Data for one instrument
- Evaluation principle
- Charts
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- Example
- Another example
- On the long run


- Tests actuels
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CSITC Round Trial Configuration


Configuration du test CSITC



	Cotton 1	Cotton 2	Cotton 3	Cotton 4	Cotton 5
day 1	6 tests	6 tests	6 tests	6 tests	6 tests
day 2	6 tests	6 tests	6 tests	6 tests	6 tests
day 3	6 tests	6 tests	6 tests	6 tests	6 tests
day 4	6 tests	6 tests	6 tests	6 tests	6 tests
day 5	6 tests	6 tests	6 tests	6 tests	6 tests
Sub Total	30 tests	30 tests	30 tests	30 tests	30 tests
Total	150 tests for each Round Trial				

- Cotton 1 to cotton 4 are used to evaluate laboratories reliably
- Cotton 5 offers the chance to include cottons with different behaviour / from different origins


- Les cotons 1 à 4 servent à évaluer la performance des laboratoires
- Le coton 5 permet d'inclure d'autres types de cotons ou d'autres origines



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Results for one instrument

Résultats d'un instrument



CSITC Round Test Cotton 1

Day	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
1	4.8	27.25	0.991	79.85	77.7	8.8	
Temp	2	4.81	27.8	0.999	80.1	77.65	8.8
22.2	3	4.88	29	1.011	81.1	77.15	8.7
RH	4	4.87	27.8	0.999	81.8	76.3	8.75
65	5	4.92	27.75	0.997	80.7	76.4	8.65
6	4.85	27.95	1.007	80.4	76.75	9.05	

Day	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
1	4.85	27.5	0.996	81.15	76.55	8.85	
Temp	2	4.85	27.5	0.996	81.15	76.55	8.85
22.2	3	4.85	28.6	1.011	79.9	77	8.55
RH	4	4.78	27.85	1.014	80.65	76.9	8.55
64.8	5	4.8	28.15	1.009	81.1	77.5	8.8
6	4.93	27.75	1.008	81.15	77.8	8.75	

Day	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
1	4.8	28.95	0.991	80.55	76.8	8.6	
Temp	2	4.77	28.1	1	80.95	77.55	8.6
22.1	3	4.8	27.45	1.033	81.3	77.75	8.75
RH	4	4.85	27.9	1.015	81.15	76.75	8.55
65	5	4.83	28.15	1.018	81.35	76.2	8.6
6	4.82	27.6	1.033	81	76.9	8.6	

Day	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
1	4.88	28.55	1.014	79.85	77.5	8.75	
Temp	2	4.83	28.55	1.026	81.45	77.3	8.7
22	3	4.8	28.25	1.032	81.05	77.55	8.5
RH	4	4.88	28.35	0.982	81.5	77.25	8.55
64.9	5	4.83	27.8	0.991	80.8	76.7	8.7
6	4.8	27.55	1.024	80.8	77.3	8.7	

Day	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
1	4.88	28.95	0.995	80	77.6	8.75	
Temp	2	4.86	27.65	1.002	81.5	76.15	8.55
21.9	3	4.83	27.8	1.033	81.35	77.8	8.55
RH	4	4.82	28.5	0.971	80.6	77.6	8.65
64.9	5	4.78	27.7	0.988	79.65	77	8.75
6	4.84	28.7	1	80.4	77.65	8.65	

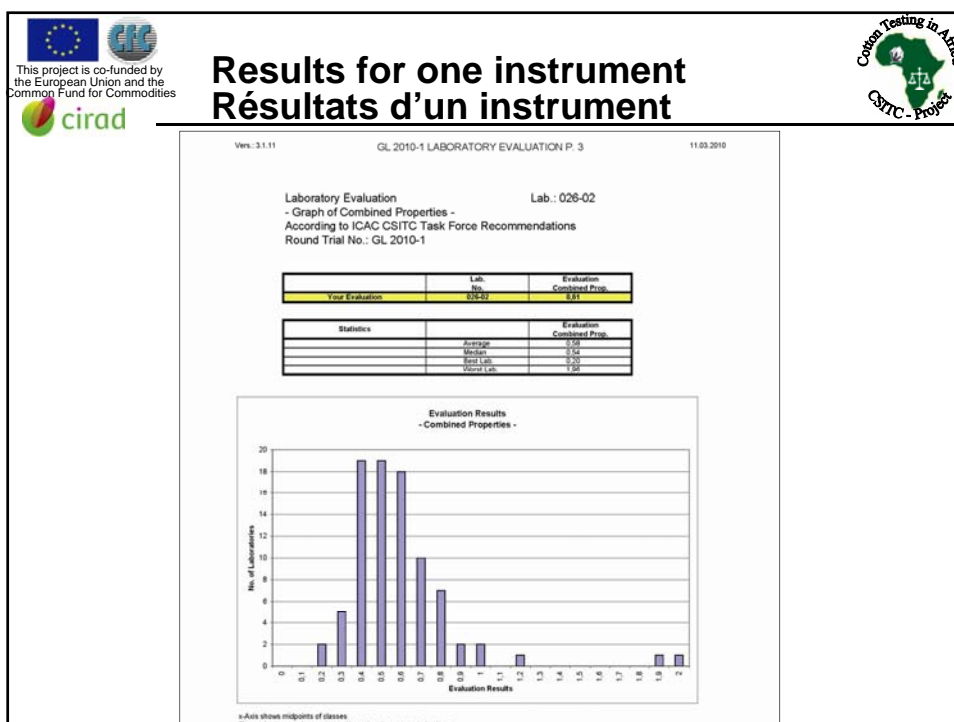
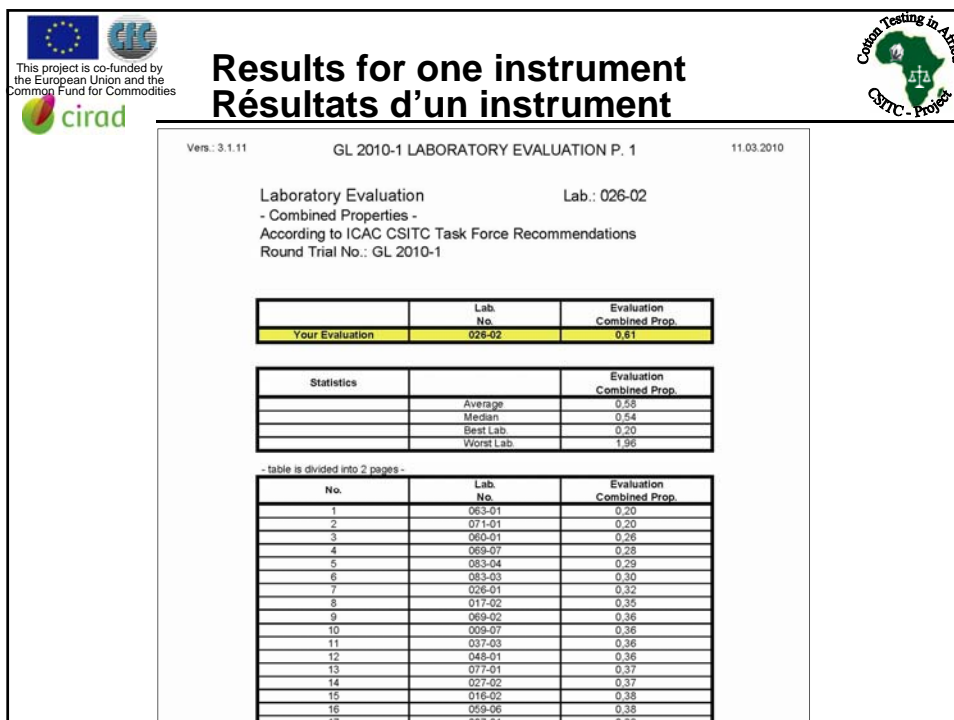
CSITC Round Test Cotton 2

Day	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
1	4.82	27.25	1.102	80.7	76.7	8.75	
Temp	2	4.82	28.1	1.102	81.15	76.7	8.75
22	3	4.8	28.55	1.102	80.1	76.55	8.6
RH	4	4.8	28.55	1.102	80.1	76.55	8.6
65	5	4.8	28.1	1.102	80.1	76.55	8.6
6	4.8	28.1	1.102	80.1	76.55	8.6	

Day	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
1	4.82	28.15	1.102	80.7	76.7	8.75	
Temp	2	4.82	28.15	1.102	80.7	76.7	8.75
22	3	4.82	28.15	1.102	80.7	76.7	8.75
RH	4	4.82	28.15	1.102	80.7	76.7	8.75
65	5	4.82	28.15	1.102	80.7	76.7	8.75
6	4.82	28.15	1.102	80.7	76.7	8.75	

Day	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
1	4.82	28.15	1.102	80.7	76.7	8.75	
Temp	2	4.82	28.15	1.102	80.7	76.7	8.75
22	3	4.82	28.15	1.102	80.7	76.7	8.75
RH	4	4.82	28.15	1.102	80.7	76.7	8.75
65	5	4.82	28.15	1.102	80.7	76.7	8.75
6	4.82	28.15	1.102	80.7	76.7	8.75	

Day	Test	Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
1	4.82	28.15	1.102	80.7	76.7	8.75	
Temp	2	4.82	28.15	1.102	80.7	76.7	8.75
22	3	4.82	28.15	1.102	80.7	76.7	8.75
RH	4	4.82	28.15	1.102	80.7	76.7	8.75
65	5	4.82	28.15	1.102	80.7	76.7	8.75
6	4.82	28.15	1.102	80.7	76.7	8.75	



Results for one instrument

Résultats d'un instrument

Version: 3.1.11 GL 2010-1 LABORATORY EVALUATION P. 4 11.03.2010

Laboratory Evaluation Lab.: 026-02
- Single Properties -
According to ICAC CSITC Task Force Recommendations
Round Trial No.: GL 2010-1

Your Evaluation

Lab. No.	Evaluation Microstate	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
026-01	0.27	0.47	0.41	0.33	0.30	0.71

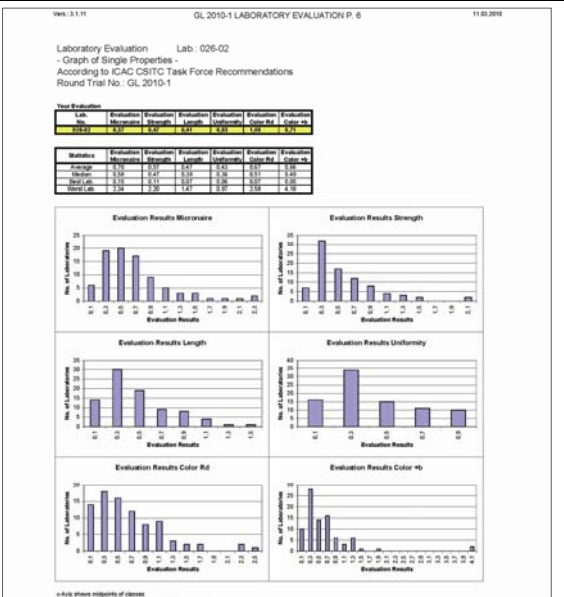
Statistics

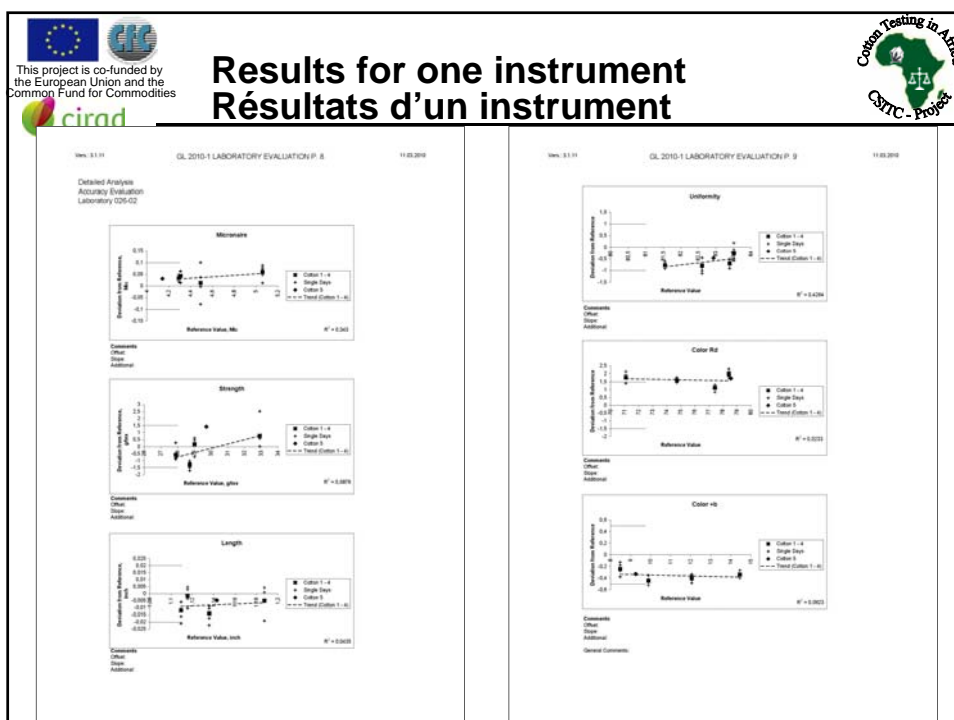
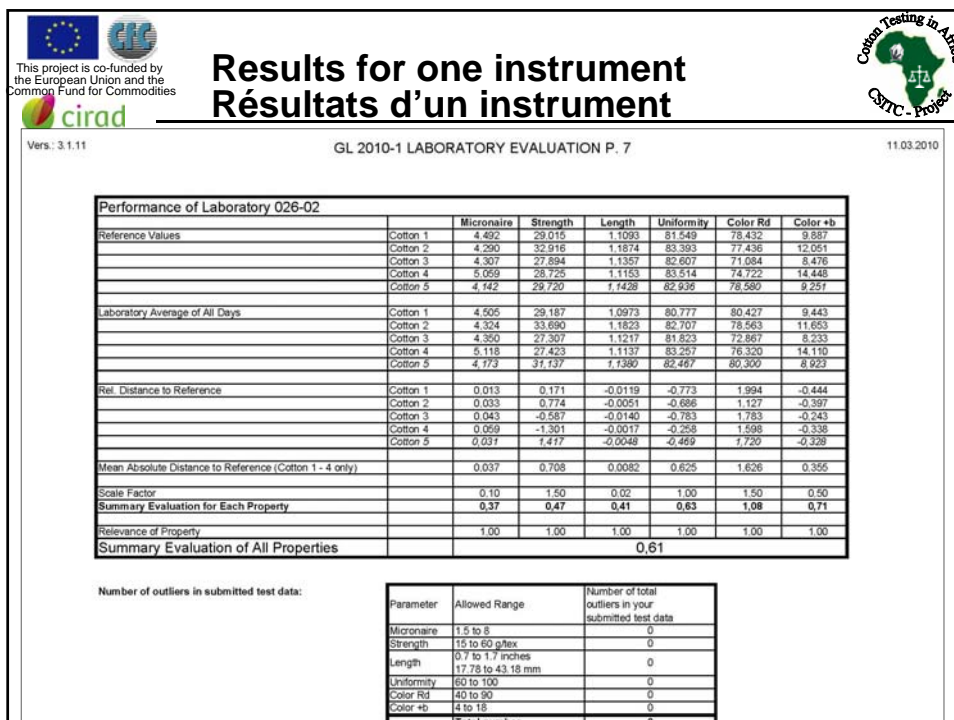
Statistics	Evaluation Microstate	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
Average	0.33	0.47	0.43	0.33	0.31	0.66
Median	0.33	0.47	0.39	0.33	0.31	0.49
Real Lab.	0.33	0.31	0.27	0.26	0.27	0.20
2007 Lab.	0.14	0.26	0.21	0.27	0.26	0.18

No.	Lab. No.	Evaluation Microstate	Lab. No.	Evaluation Strength	Lab. No.	Evaluation Length	Lab. No.	Evaluation Uniformity	Lab. No.	Evaluation Color Rd	Lab. No.	Evaluation Color +b
1	026-01	0.15	026-02	0.11	026-03	0.07	026-04	0.06	026-05	0.07	026-06	0.05
2	026-01	0.15	026-03	0.14	026-04	0.09	026-05	0.12	026-06	0.11	026-07	0.08
3	026-03	0.15	026-02	0.10	027-02	0.09	026-01	0.14	027-01	0.11	027-03	0.02
4	026-01	0.15	026-01	0.16	026-02	0.11	041-01	0.15	026-01	0.13	026-01	0.12
5	026-06	0.19	026-01	0.16	026-01	0.13	026-01	0.15	040-01	0.16	026-01	0.14
6	026-01	0.19	026-06	0.16	024-01	0.14	021-01	0.15	026-01	0.17	026-01	0.15
7	026-01	0.22	026-02	0.19	040-01	0.14	026-01	0.16	040-01	0.17	026-02	0.16
8	026-01	0.22	027-02	0.21	027-02	0.15	026-03	0.17	026-02	0.19	026-01	0.16
9	026-01	0.25	026-04	0.22	040-01	0.15	026-02	0.18	027-03	0.18	040-01	0.18
10	040-04	0.26	026-01	0.24	026-01	0.16	040-01	0.19	040-01	0.18	026-01	0.19
11	026-01	0.28	026-02	0.24	040-01	0.17	026-01	0.18	026-06	0.18	044-01	0.23
12	026-01	0.29	026-02	0.25	026-01	0.17	027-01	0.19	026-01	0.18	026-01	0.23
13	026-01	0.29	026-01	0.26	044-01	0.19	026-01	0.19	026-01	0.19	040-01	0.24
14	026-01	0.29	026-01	0.26	044-01	0.19	040-01	0.19	026-01	0.20	026-01	0.24
15	041-02	0.30	027-04	0.26	026-01	0.21	026-01	0.20	026-01	0.21	026-01	0.27
16	026-07	0.33	041-01	0.27	026-01	0.21	026-01	0.20	027-04	0.22	044-01	0.30
17	026-02	0.35	027-03	0.29	026-01	0.24	044-01	0.20	027-02	0.22	026-01	0.31
18	026-01	0.35	027-02	0.27	026-01	0.24	026-01	0.20	026-01	0.23	027-02	0.31
19	026-01	0.36	026-01	0.27	026-01	0.24	026-01	0.21	026-07	0.23	026-01	0.32
20	026-01	0.36	026-01	0.28	026-01	0.24	026-01	0.21	026-01	0.27	026-01	0.32
21	026-01	0.36	026-01	0.28	026-01	0.24	026-01	0.21	026-01	0.27	026-01	0.32
22	026-02	0.37	026-01	0.31	026-01	0.25	026-01	0.21	026-02	0.28	027-01	0.33
23	026-01	0.37	026-01	0.32	026-01	0.25	026-01	0.21	026-02	0.28	027-01	0.33
24	026-01	0.37	026-02	0.33	027-02	0.27	026-01	0.21	026-02	0.28	027-01	0.34
25	026-01	0.38	026-01	0.33	026-01	0.26	026-01	0.24	026-01	0.28	026-06	0.34
26	044-01	0.41	026-01	0.34	026-01	0.26	026-01	0.24	026-01	0.28	026-01	0.34
27	026-01	0.41	044-01	0.35	027-02	0.29	026-07	0.25	044-01	0.31	026-01	0.35
28	026-01	0.43	026-02	0.39	026-01	0.31	026-01	0.28	026-01	0.33	026-01	0.35
29	026-01	0.43	026-02	0.39	026-01	0.31	027-02	0.28	026-01	0.34	040-01	0.36
30	026-02	0.43	026-01	0.36	026-01	0.32	027-02	0.29	026-01	0.35	026-01	0.37
31	026-01	0.45	026-02	0.38	026-01	0.32	026-06	0.29	026-01	0.35	026-04	0.37
32	026-01	0.46	026-01	0.38	026-01	0.32	026-01	0.29	026-01	0.35	026-01	0.38
33	026-01	0.47	026-01	0.37	026-01	0.32	044-01	0.29	026-01	0.40	026-01	0.39

Results for one instrument

Résultats d'un instrument

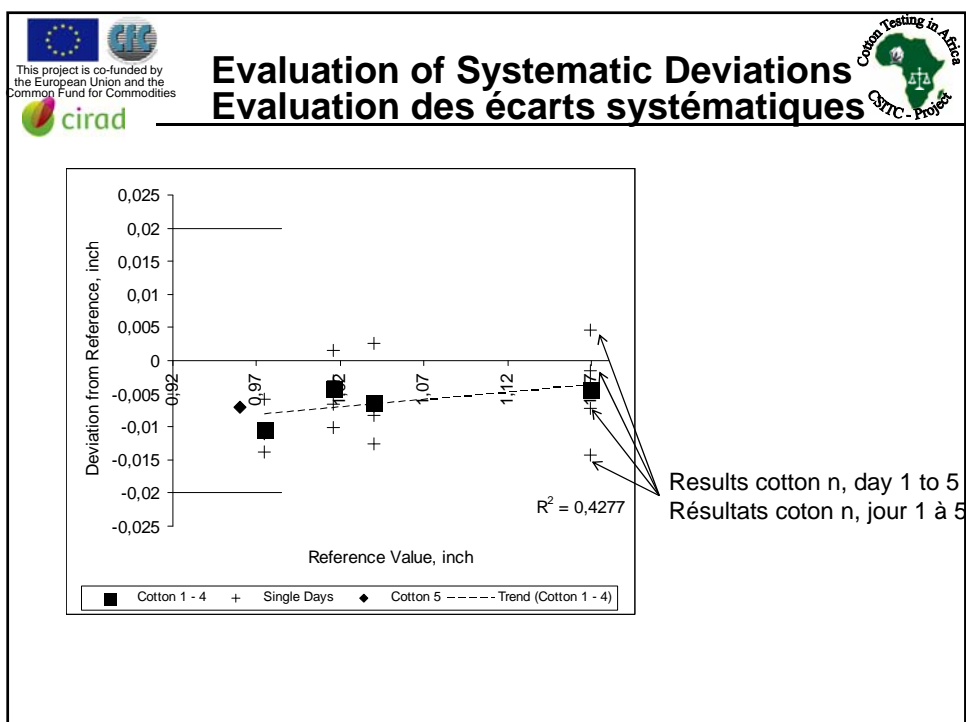
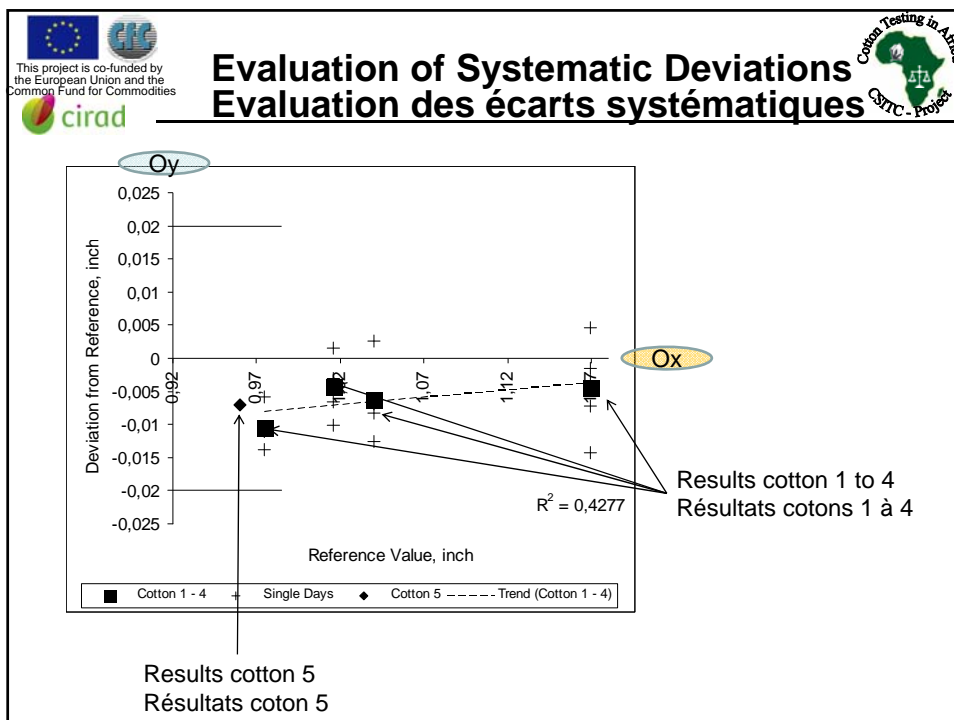


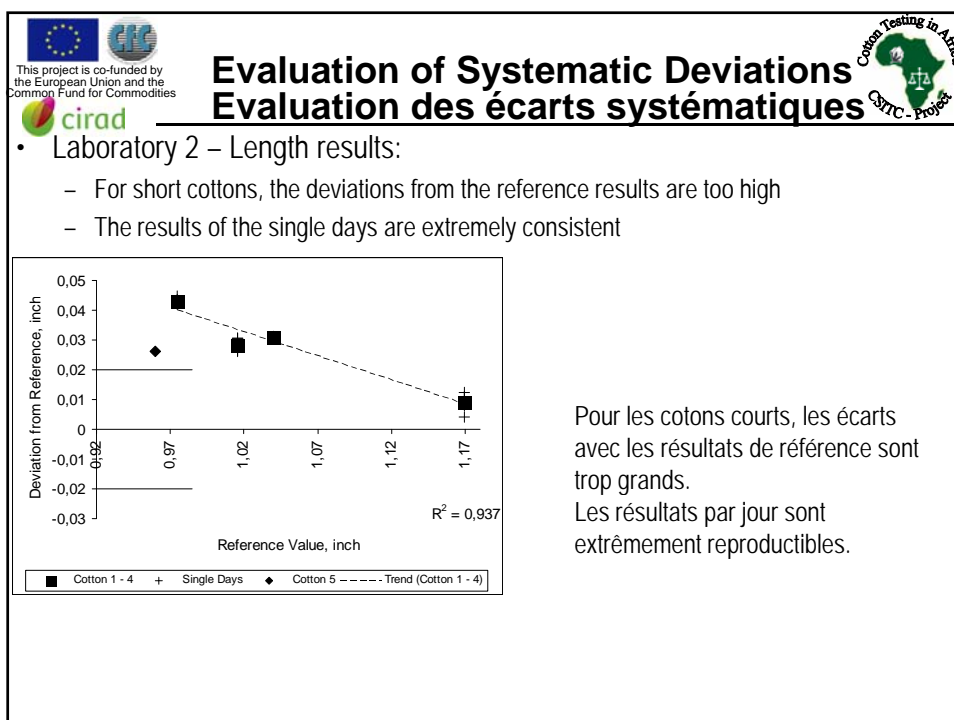
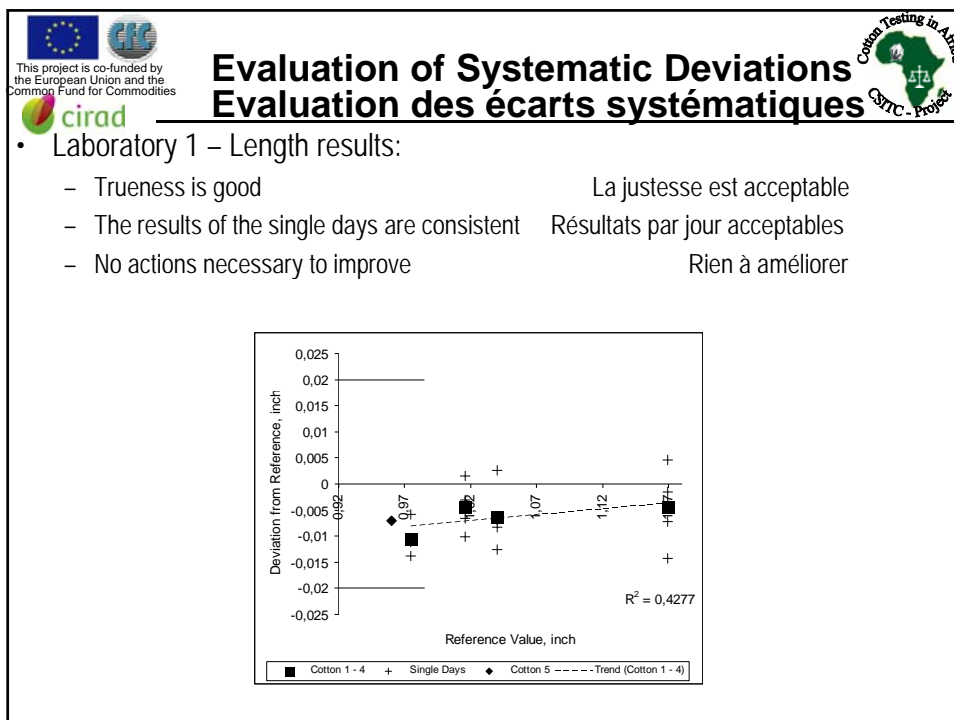


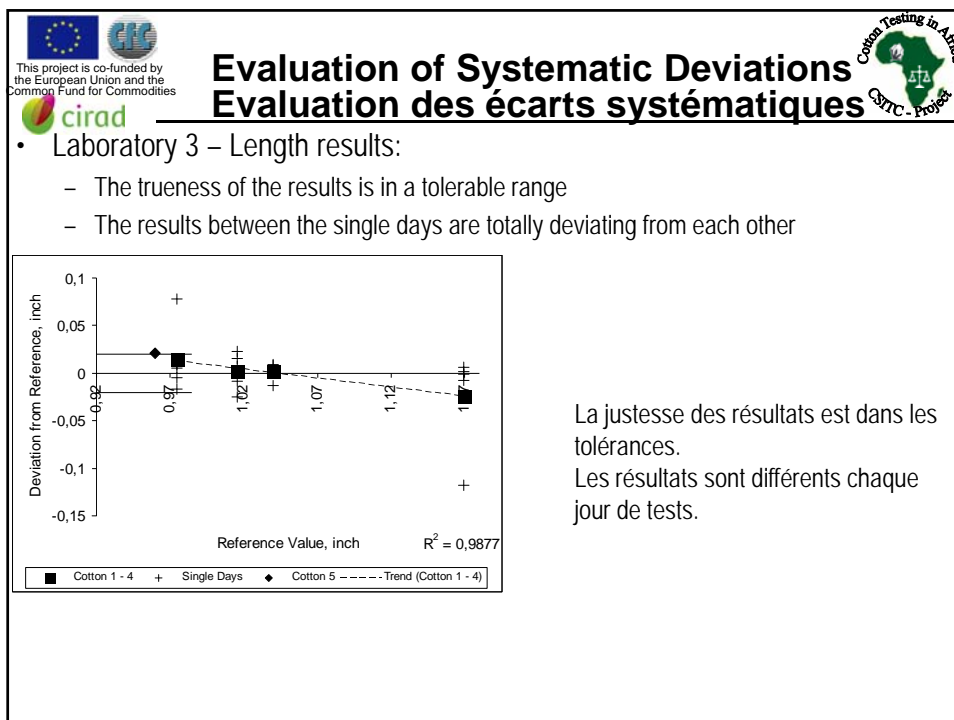
Detailed Analysis
Precision Evaluation
Laboratory 026-02



		Color #b							
		Color 1	Color 2	Color 3	Color 4	Average	Color 5	Remarks	
Reference Values for Evaluation		0.1007	0.1011	0.0716	0.1000	0.0934	0.1007		
Typical In-Lab. Variation (Median)	Between different days with each 5 tests	0.0016	0.0011	0.0026	0.0030	0.0016	0.0044		
	Between single tests on one day	0.0018	0.0026	0.0009	0.0010	0.0014	0.0019		
	Between different tests on one day	0.0017	0.0010	0.0012	0.0010	0.0014	0.0019		
	Between different days with each 5 tests	0.0016	0.0026	0.0009	0.0010	0.0014	0.0019		
In-Lab. Variation (Year Lab.)	Between single tests on one day	0.0044	0.0020	0.0009	0.0002	0.0021	0.0049		
	Between different days on different days	0.0049	0.0040	0.0021	0.0002	0.0033	0.0091		

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<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p>This project is co-funded by the European Union and the Common Fund for Commodities</p> </div> <div style="text-align: center;"> <h2>Plan of presentation</h2> <h2>Plan de présentation</h2> </div> <div style="text-align: center;">  <p>Cotton Testing in Africa CSITC - Project</p> </div> </div>	
<ul style="list-style-type: none"> Existing tests CSITC RT Data for one instrument Evaluation principle Charts Influences Example Another example On the long run 	<ul style="list-style-type: none"> Tests actuels CSITC RT Données d'un instrument Principe d'évaluation Graphes Influences Exemple Autre exemple Dans le temps

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Example Exemple

Performance of Laboratory 026-02

		Micronaire	Strength	Length	Uniformity	Color Rd	Color +b
Reference Values	Cotton 1	4,492	29 015	1,1093	81,549	78,432	9,887
	Cotton 2	4,290	32 916	1,1874	83,393	77,436	12,051
	Cotton 3	4,307	27 894	1,1357	82,807	71,084	8,476
	Cotton 4	5,059	28 725	1,1153	83,514	74,722	14,448
	Cotton 5	4,142	29,720	1,1428	82,936	76,580	9,251
Laboratory Average of All Days	Cotton 1	4,505	29 187	1,0973	80,777	80,427	9,443
	Cotton 2	4,324	33 690	1,1823	82,707	78,563	11,653
	Cotton 3	4,350	27,307	1,1217	81,823	72,867	8,233
	Cotton 4	5,118	27 423	1,1137	83,257	76,320	14,110
	Cotton 5	4,173	31,137	1,1380	82,467	80,300	8,923
Rel. Distance to Reference	Cotton 1	0,013	0,171	-0,0119	-0,773	1,994	-0,444
	Cotton 2	0,033	0,774	-0,0051	-0,686	1,127	-0,397
	Cotton 3	0,043	-0,587	-0,0140	-0,783	1,783	-0,243
	Cotton 4	0,059	-1,301	-0,0017	-0,258	1,598	-0,338
	Cotton 5	0,031	1,417	-0,0048	-0,469	1,720	-0,328
Mean Absolute Distance to Reference (Cotton 1 - 4 only)		0,037	0,708	0,0082	0,625	1,626	0,355
Scale Factor		0,10	1,50	0,02	1,00	1,50	0,50
Summary Evaluation for Each Property		0,37	0,47	0,41	0,63	1,08	0,71
Relevance of Property		1,00	1,00	1,00	1,00	1,00	1,00
Summary Evaluation of All Properties					0,61		

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Example Exemple

Laboratory Evaluation

Lab.: 026-02

- Combined Properties -

According to ICAC CSITC Task Force Recommendations

Round Trial No.: GL 2010-1

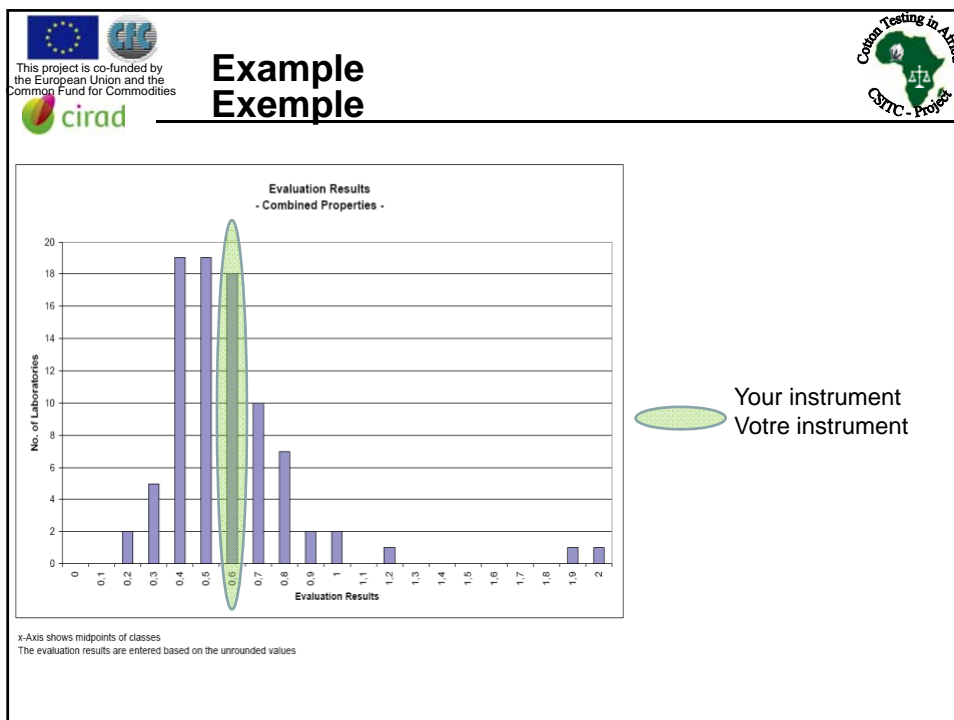
	Lab. No.	Evaluation Combined Prop.
Your Evaluation	026-02	0,61


Statistics		Evaluation Combined Prop.
	Average	0,58
	Median	0,54
	Best Lab.	0,20
	Worst Lab.	1,96

No.	Lab. No.	Evaluation Combined Prop.
41	021-01	0,52
42	067-01	0,52
43	039-01	0,52
44	040-01	0,54
45	079-01	0,55
46	046-01	0,56
47	076-01	0,56
48	010-02	0,56
49	091-01	0,57
50	068-02	0,58
51	077-02	0,58
52	030-01	0,59
53	003-01	0,59
54	019-01	0,59
55	074-01	0,60
56	002-01	0,61
57	089-01	0,61
58	026-02	0,61
59	025-01	0,62
60	025-02	0,62

All labs average
Moyenne de tous les laboratoires


Your instrument
Votre instrument





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Example Exemple



Laboratory Evaluation Lab.: 026-02

- Single Properties -

According to ICAC CSITC Task Force Recommendations


Round Trial No.: GL 2010-1

Your Evaluation

Lab. No.	Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
026-02	0,37	0,47	0,41	0,63	1,08	0,71


Statistics	Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
Average	0,70	0,57	0,47	0,43	0,67	0,68
Median	0,58	0,47	0,39	0,36	0,51	0,49
Best Lab.	0,15	0,11	0,07	0,06	0,07	0,05
Worst Lab.	2,34	2,20	1,47	0,97	2,58	4,18

ATTENTION !!!




All labs average

Moyenne de tous les laboratoires



Your instrument

Votre instrument



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**Example
Exemple**

Laboratory Evaluation Lab.: 026-02

- Single Properties -

According to ICAC CSITC Task Force Recommendations

Round Trial No.: GL 2010-1



Your Evaluation

Lab. No.	Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
026-02	0,37	0,47	0,41	0,63	1,08	0,71


Statistics	Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
Average	0,70	0,57	0,47	0,43	0,67	0,66
Median	0,58	0,47	0,39	0,36	0,51	0,49
Best Lab.	0,15	0,11	0,07	0,06	0,07	0,05
Worst Lab.	2,34	2,20	1,47	0,97	2,58	4,18

No.	Lab. No.	Evaluation Color Rd
61	030-01	0,85
62	027-01	0,86
63	088-01	0,86
64	059-06	0,91
65	072-01	0,94
66	023-01	0,96
67	074-01	0,99
68	089-01	1,00
69	079-01	1,03
70	061-01	1,03
71	029-01	1,04
72	059-05	1,05
73	086-01	1,06
74	086-03	1,07
75	026-02	1,08
76	050-01	1,14
77	047-01	1,17
78	057-01	1,35
79	044-01	1,35
80	076-01	1,38
81	038-01	1,46
82	050-01	1,58
83	056-01	1,69
84	064-01	1,69
85	033-01	2,31
86	078-02	2,39
87	078-01	2,58

ATTENTION !!!

All labs average
Moyenne de tous les laboratoires

Your instrument
Votre instrument



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**Example
Exemple**

Laboratory Evaluation Lab.: 026-02

- Single Properties -

According to ICAC CSITC Task Force Recommendations

Round Trial No.: GL 2010-1



Your Evaluation

Lab. No.	Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
026-02	0,37	0,47	0,41	0,63	1,08	0,71

Statistics	Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
Average	0,70	0,57	0,47	0,43	0,67	0,66
Median	0,58	0,47	0,39	0,36	0,51	0,49
Best Lab.	0,15	0,11	0,07	0,06	0,07	0,05
Worst Lab.	2,34	2,20	1,47	0,97	2,58	4,18

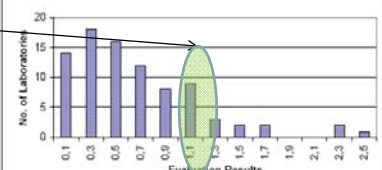
No.	Lab. No.	Evaluation Color Rd
61	030-01	0,85
62	027-01	0,86
63	088-01	0,86
64	059-06	0,91
65	072-01	0,94
66	023-01	0,96
67	074-01	0,99
68	089-01	1,00
69	079-01	1,03
70	061-01	1,03
71	029-01	1,04
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83	056-01	1,69
84	064-01	1,69
85	033-01	2,31
86	078-02	2,39
87	078-01	2,58

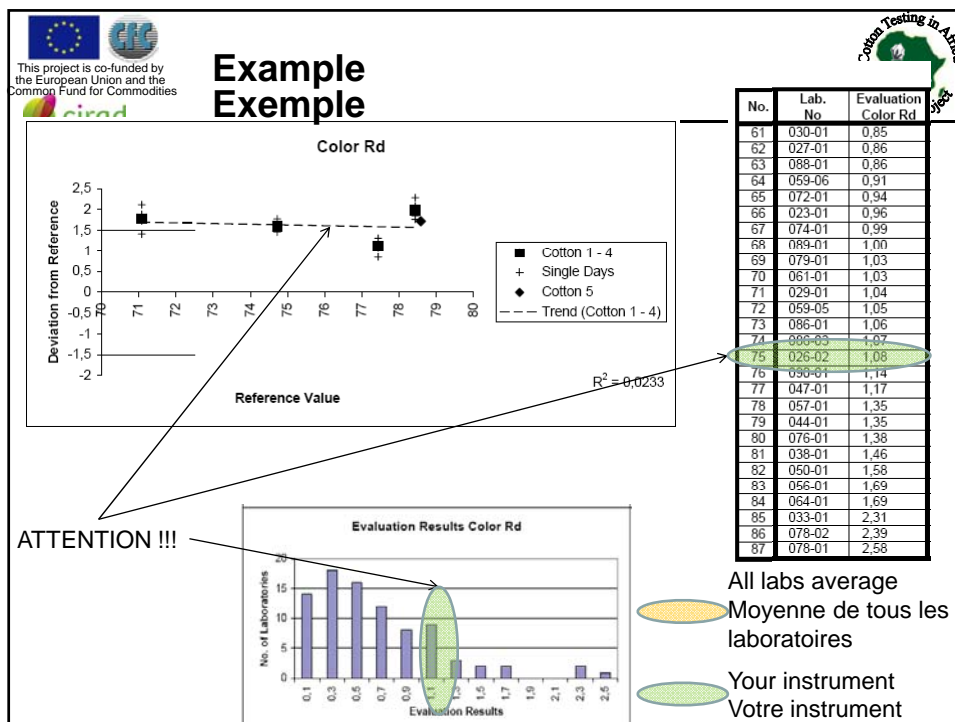
ATTENTION !!!


All labs average
Moyenne de tous les laboratoires

Your instrument
Votre instrument

Evaluation Results Color Rd






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Another example


Autre exemple

Strength

			Cotton 1	Cotton 2	Cotton 3	Cotton 4	Average	Cotton 5	Remark
Reference Values for Evaluation			29.015	32.916	27.894	28.725		29.720	
Typical In-Lab. Variation (Median)	between different days with each 6 tests	SD	0.480	0.443	0.428	0.469	0.455	0.458	
	between single tests on one day	SD	0.585	0.688	0.555	0.532	0.583	0.649	
	between all tests on different days	SD	0.773	0.784	0.673	0.694	0.731	0.794	
In-Lab. Variation (Your Lab.)	between different days with each 6 tests	SD	0.524	1.027	0.488	0.292	0.583	0.590	
	between single tests on one day	SD	0.818	1.125	0.805	0.656	0.875	0.967	
	between all tests on different days	SD	0.990	1.407	1.016	0.675	1.022	1.087	

ATTENTION !!!


All labs average
 Moyenne de tous les laboratoires
 Your instrument
 Votre instrument



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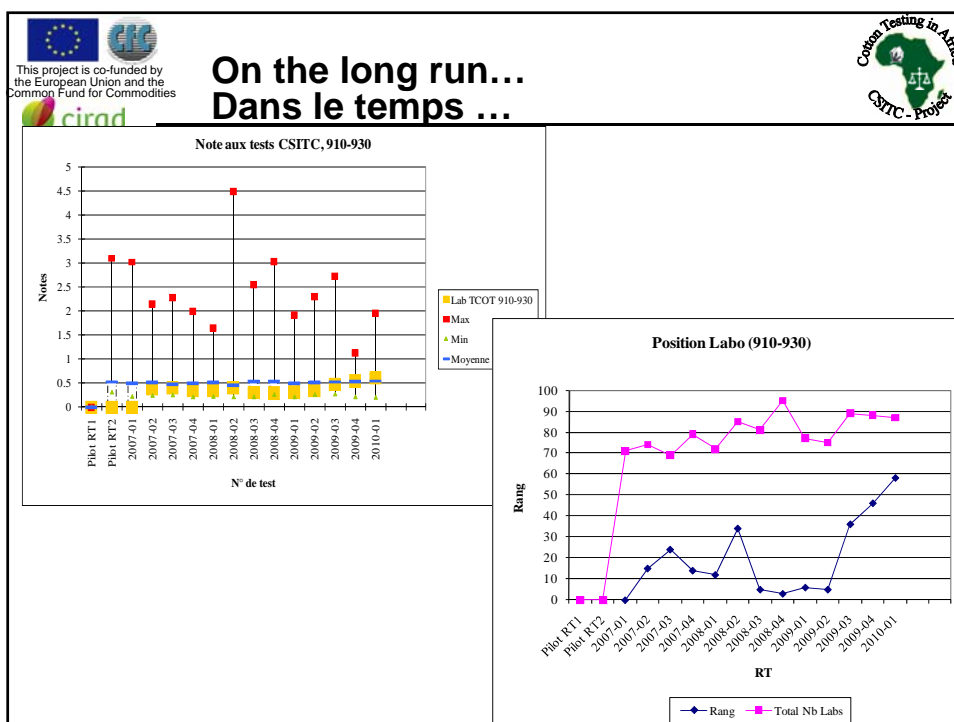
Plan of presentation

Plan de présentation

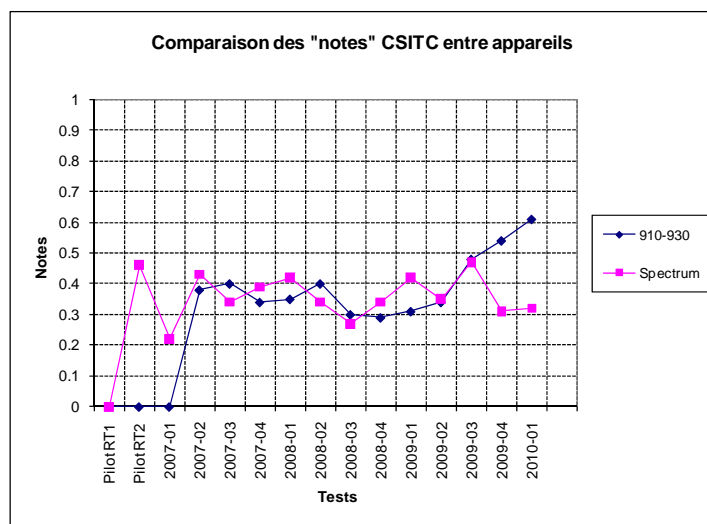


- Existing tests
- CSITC RT
- Data for one instrument
- Evaluation principle
- Charts
- Influences
- Example
- Another example
- On the long run

- Tests actuels
- CSITC RT
- Données d'un instrument
- Principe d'évaluation
- Graphes
- Influences
- Exemple
- Autre exemple
- Dans le temps




On the long run... Dans le temps ...




Plan of presentation Plan de présentation

- | | |
|---------------------------|---------------------------|
| • Existing tests | • Tests actuels |
| • CSITC RT | • CSITC RT |
| • Data for one instrument | • Données d'un instrument |
| • Evaluation principle | • Principe d'évaluation |
| • Charts | • Graphes |
| • Influences | • Influences |
| • Example | • Exemple |
| • Another example | • Autre exemple |
| • On the long run | • Dans le temps |


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On the long run... Dans le temps ...




- Use of csitc.org

- Utilisation du csitc.org


[CSITC-RoundTrial-instructions-2s.pdf](#)


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On the long run... Dans le temps ...



<p>Inter-laboratory test within the Region</p> <ul style="list-style-type: none"> – Activity of the RTC-AOC – Same configuration as the international CSITC test – Cottons from the Region – No certificate – However a diagnostic of the laboratory performances 	<p>Tests inter-laboratoires dans la Région</p> <ul style="list-style-type: none"> – Activité du CTR-AOC – Même configuration que le test CSITC international – Cotons de la Région – Pas de certificat – Mais un diagnostic des performances des laboratoires
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On the long run... Dans le temps ...



Round test: every three months

→ importance of retests

Also a normal activity of the RTC-AOC:

- Laboratories send samples to the RTC which test them and compare their results to yours for a diagnostic
- Periodicity: every week

Tests inter-laboratoires : tous les 3 mois

→ importance des retests

Egalement une activité normale du CTR-AOC :

- Les laboratoires envoient des échantillons au CTR qui les teste et compare ses résultats aux vôtres pour un diagnostic
- Fréquence : toutes les semaines


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Thank you for your attention
Merci de votre attention